

**PROJECT:** Midnite Mine Remediation**REPORT NO:** 2021-17**OWNER:** Newmont/Dawn Mining**OPERATOR:** Newmont/Dawn Mining**SUMMARY OF WORK ACTIVITIES OR EVENTS FOR THIS REPORTING PERIOD:**

This weekly report provides a summary of Midnite Mine Site (Site) remediation action (RA) construction activities, quality assurance (CQA), quality control (CQC) and engineering activities for the period July 16 – 22, 2021. The Site activities discussed in this weekly report include, but are not limited to: Site Health, Safety, and Security; Community Liaison, Project Meetings, Regulatory Oversight, Site Visitors; Site Mobilization; RA Activities; Project Documentation; and Site Inspections.

The project SharePoint site includes the Project documentation discussed in this report. Access to the project SharePoint site is available at the following link: (b) (6)

**SITE HEALTH, SAFETY, AND SECURITY**

MIDNITE MINE HEALTH & SAFETY SUMMARY: Reporting Period July 16 – 22, 2021			
FIRST AID INJURY	0	PROPERTY DAMAGE	0
MEDICALLY TREATED INJURY	0	NEAR MISS INCIDENT	0
RESTRICTED WORK INJURY	0	RADIATION PROTECTION PLAN (RPP) – ISSUES REPORTED	0
LOST TIME INJURY	0		
Comments: There were no incident for this week. On July 21 night shift, out of precaution, the Mine suspended all operations due to the close proximity of the Sherwood fire and the uncertainty surrounding it. After confirming emergency response had the capability to respond, communications could be maintained, the Mine was not in danger of being compromised, and that the day shift crew was able to get adequate rest, operations resumed.			

**COMMUNITY LIAISON**

- Community notifications continue to be sent to Mr. Sherwood for site equipment deliveries and WTP Solids transport.
- Notification to EMS Dispatch and Mr. Sherwood on Midnite work suspension due to Sherwood Fire uncertainty July 21. All employees off-site 17:00hrs.
- Midnite operations start back up July 22 as a better understanding of the wildfire was known. Road access remained open to the site, utility power remained on, areas for evacuation in proximity of fire are known, and EMS had assigned an additional crew for emergency response.

**PROJECT MEETINGS, REGULATORY OVERSIGHT, AND SITE VISITORS****Weekly Progress Meeting:**

The following stakeholders attended the Construction Progress meeting at the Site to discuss the status of remedial project activities and observe specific Site areas on Tuesday and Wednesday, 20-21 July 2021;

- EPA
- Spokane Tribe of Indians
- Army Corps of Engineers (USACE)
- Dawn Mining Company (DMC)/Newmont
- WME
- AJAX

- Stantec

#### Meeting Action Items:

- EPA requested graphs of groundwater quality analytical parameters for wells MWNE-01 and MWNE-02 to support eliminating sampling of the wells for the next two semi-annual events due to access constraints caused by excavation of the Pit 4 Overburden Upper and Middle Areas.

#### EPA Plan/Document Approvals:

- None.

#### Regulatory Site Visit(s):

- Julie Wroble, EPA, was on Site on 20-21 July.
- Linda Meyer, EPA, was on Site on 20-21 July.
- Brian Crossley, Spokane Tribe, was on Site on 20-21 July.
- Kaylene Ritter, AbT Associates, was on Site on 20-21 July.
- Jacob Williams, USACE, was on Site on 20-21 July.
- Mark Fillius, USACE, was on Site on 16 and 19-22 July.

## REMEDIAL WORK ACTIVITIES

#### Construction:

During the week of July 16 – 22, 2021, the following activities were conducted:

- Newmont excavated, hauled and placed low activity/low reactivity material from the west side of the South Waste Rock Pile (SWRP) and the Pit 4 Overburden Pile. Newmont placed these materials in the Pit 4 Waste Containment Area (WCA).
- WME collected and submitted Final Status Survey (FSS) soils samples from the South Construction Support Zone (CSZ) and the Pit 4 Overburden Upper.
- SLV Earthmovers continued crushing and screening material from the Hillside Waste Rock Pile (HSWRP) to produce Drain Gravel and Geomembrane Bedding Material. Newmont hauled these materials to stockpile locations designated in the 2021 Crushing and Stockpiling Work Plan (Stantec, 2021). Estimated quantities of materials produced are presented in Table 1.
- Collection of Quality Control samples from the crushing and screening operation continued with samples of Drain Gravel and Geomembrane Bedding Material submitted to Budinger and Associates for gradation analysis.
- Stantec performed Method 9 visible emissions observations at the crushing and screening operation on the HSWRP on 16 July. Visible dust from the crushing operation conformed with project requirements.
- Stantec performed South Pond embankment stability inspection on 16 July. The embankment remains stable and the water level in the South Pond piezometer remains below the action level.
- Hi-Tech Rockfall scaled the walls of Pit 3 outside the areas protected by wire mesh drapery and attenuator systems.
- Northwest Linings repaired patches at 4 locations in the west cell of the South Pond where the patches were cut to allow trapped air to escape from under the patch.
- Transferred water from the East Cell to the West Cell and noticed an increase in leakage levels. Currently leakage rates approximately 400 gallons per day / Action Leakage Rate 2. Coordinating for a leak detection service to identify leakage location.
- Halme Construction continued installation of the effluent pipeline between Stations 14+63 and 34+55 with installation completed through Station 29+11.

- Halme Construction continued clearing and grubbing the effluent pipeline alignment along Blue Creek Road.
- Halme Construction continued hauling bedding material for the effluent pipeline and staging the material along the New Access Road.
- Halme Construction cleared the New Access Road to the Midnite Mine Perimeter Fence
- Halme Construction did not work at site 22 July and 23 July due to the Sherwood Fire.

**Table 1 – 2021 Production Estimates**

Material	Reporting Period			Year-to-date			Annual % Complete
	Planned Production (yd³)	Estimated Volume¹ (yd³)	% of Planned	Planned Production (yd³)	Estimated Volume¹ (yd³)	% of Planned	
Haulage to Pit 4							
SWRP	17,919	49,840	278%	383,617	605,388	158%	80%
HSWRP	1,889	0	0%	30,494	2,828	9%	4%
Pit 4 Overburden	14,700	1,204	8%	153,580	309,960	202%	93%
CSZ Cleanup	417	0	0%	1,167	28,700	2460%	574%
Total	34,925	51,044	146%	568,858	946,876	166%	82%
Aggregate Production							
Drain Gravel	8,500	8,634	102%	141,100	109,151	77%	36%
Liner Bedding	0	0	--	9,250	9,414	102%	102%
Geomembrane Bedding	8,500	8,898	105%	141,100	112,464	80%	29%
Total	17,000	17,532	103%	291,450	231,029	79%	33%

1 - Truck load assumed to be 27 yd<sup>3</sup>

### Stormwater Pollution Prevention Plan (SWPPP)

- Halme Construction continued to install silt fence along Blue Creek Road.
- Stantec completed the monthly SWPPP inspection. No deficiencies or modification to BMPs were identified.

### Spill Prevention, Control, and Countermeasure Activities (SPCC)

- None.

### Equipment Mobilized/Demobilized and Material Delivered

The following equipment was mobilized to the Site during this reporting period.

- Newmont mobilized a 2,200 gal water truck to site.
- Halme Construction mobilized an excavator and a water truck.

The following equipment was demobilized from the Site during this reporting period.

- None.

All project owned non-road diesel equipment on Site is US-EPA Tier 4 compliant. On-site rental equipment and subsequent deliveries of rental equipment may be less than Tier 4 and will be assessed at the time of delivery.

### Materials:

The following material was delivered to the Site during this reporting period.

- Pipe bedding material for effluent pipeline.

## CONSTRUCTION QUALITY ASSURANCE

### Dust Control and Monitoring

Eight dust monitors operated on site at the locations and for the time intervals listed in Table 2 below. The Sherwood fire started on Wednesday afternoon (7/21/2021) and continued through Friday (7/23/2021). Numerous alarms were received during this time-period due to the smoky site conditions. The dust monitors were turned off to avoid additional alarms. A total of three water trucks (2,200, 4,000 and 9,000-gallon capacity) were used for dust suppression around the mine site and two additional water trucks (each with a 4,000-gallon capacity) were utilized as needed for dust suppression during construction activities at the effluent pipeline.

**Table 2 - TSP Dust Monitoring Locations during reporting period July 16 – 22, 2021**

Monitor ID	Location Description	Start Date	Status						
			Fri	Sat	Sun	Mon	Tue	Wed	Thurs
ES-1 (stationary)	Midnite Mine Top of Pit 4	03/23/21	D/N			D/N	D/N	E	E
ES-2 (stationary)	Midnite Mine Southeast Boundary	03/23/21	D/N			D/N	D/N	E	E
ES-3 (stationary)	Midnite Mine West Boundary	03/23/21	D/N			D/N	D/N	E	E
ES-4 (roving)	Northeast Side of the SCSZ	04/16/21	D/N			D/N	D/N	E	E
ES-5 (roving)	Northeast of the Mid-SWRP	03/24/21	D/N			D/N	D/N	E	E
ES-6 (roving)	East of HSWRP above High Road	03/23/21	D/N			D/N	D/N	E	E
ES-7 (roving)	Northeast of HSWRP at Pit 4	03/23/21	D/N			D/N	D/N	E	E
ES-8 (stationary)	NAR ~Station 14+00	06/29/21	D/N			D/N	D/N	E	E
D=Day Shift (6:00 am to 4:30 pm) N=Night Shift (4:00 pm to 2:30 am) E=Environmental conditions (fog, smoke, pollen, heavy rain, etc.) O=Off - Special Circumstances * Equipment malfunction (Battery/Power Supply or Other)									

### Project Documentation

Project CQA-CQC Field Acceptance Forms, Engineering Change Notices (ECNs), Design Clarification Notices (DCNs), Non-Compliance Notifications (NCNs), Requests for Information (RFIs), Submittals, and Other Items received during this time-period are shown in the table below:

#### CQA Documentation

CQC-CQA Field Acceptance Forms			
Acceptance No.	Title		CQC-CQA Issue Date
None			
Project DCNs			
DCN No.	Title	Submittal Date	EPA Response Date
None			
Project ECNs			
ECN No.	Title	Submittal Date	EPA Response Date

2021-01	<p>Monitoring and Control of Phreatic Levels in the South Pond Embankment <a href="#">Mine Site</a></p> <p>Dewatering well pump test was conducted on Friday (5/28/2021).</p> <p>EPA Comments – <b>Provide a summary report of findings with a final plan for dewatering. If dewatering is necessary, include a schedule for dewatering.</b></p> <p><b>Summary Memo for the South Pond Dewatering Well &amp; Piezometer sent to EPA on 7/18/2021</b></p>	3/19/2021	<p><b>Conditional Approval Received on 5/11/2021</b></p> <p><b>Summary Report Received by CQA on 7/14/2021 – Stantec to Forward to the EPA</b></p> <p><b>EPA TBD</b></p>
2021-02	<p>Modifications to Pit 3 Underdrain and Dewatering Sumps <a href="#">Mine Site</a></p> <p><b>Stantec to Prepare Response to EPA Comments (EPA to send any additional comments by 7/15/2021).</b></p>	6/8/2021	<p><b>EPA Approval 7/13/2021</b></p> <p><b>Stantec to provide responses to EPA's previous comments</b></p>
<b>Notice of Non-Compliance</b>			
<b>NNC No. and Dates</b>	<b>Title/Description</b>	<b>CQA</b>	<b>CQA/EPA Response Date(s)</b>
None			
<b>Project RFIs</b>			
<b>RFI No.</b>	<b>Title</b>	<b>CQC Submittal Date</b>	<b>CQA/EPA Response Date(s)</b>
HC-2021-06	<p>NAR Lead-Off Crossing and Pipeline Alignment Adjustment <a href="#">Effluent Pipeline</a></p> <p><b>Design Engineer's Response Received 6/29/2021</b></p> <p><b>EPA Comments Received 7/14/2021 – Stantec Preparing Responses:</b></p>	6/17/2021	<p>CQA – 7/1/2021 <b>EPA - TBD</b></p>
HC-2021-08	<p>Use of Native Materials for Bedding Source <a href="#">Effluent Pipeline</a></p>	6/29/2021	<p>CQA – 7/14/2021 <b>EPA – TBD</b></p>
2021-05	<p>June 2, 2021 Liner Bedding Gradation Test Results <a href="#">Mine Site</a></p>	7/6/2021	<p>CQA – 7/13/2021 <b>EPA - TBD</b></p>
<b>Submittals</b>			
<b>Submittal No.</b>	<b>Title</b>	<b>CQC Submittal Date</b>	<b>CQA/EPA Response Date(s)</b>
HC-01575-02.1	<p>Addendum to SPCC – Fuel Tanks <a href="#">Effluent Pipeline</a></p> <p><b>EPA returned with Comments</b></p> <p><b>Halme to apply for the EPA Tier 1 Qualified Plan and Resubmit</b></p>	6/10/2021	<p>CQA – 6/14/2021 <b>EPA - TBD</b></p>
02272-15	<p>South Pond Geomembrane – 2021 Liner Repairs <a href="#">Mine Site</a></p>	6/21/2021	<p><b>CQA – 7/22/2021</b> <b>EPA - TBD</b></p>
HC-02593-01.1	<p>Rings and Lids for Manholes <a href="#">Effluent Pipeline</a></p> <p><b>On Hold – Waiting for New Design on Rings and Lids</b></p>	6/24/2021	<p><b>CQA – TBD</b> <b>EPA - TBD</b></p>

HC-02200-03.2	Native Screen Bedding Sample Analysis <b>Effluent Pipeline</b>  <i>Gradation Under Review by Design Engineer – <b>Rejected as Out-of-Spec. for Bedding Material</b></i>  <i>Material to be Used as Trench Backfill – Waiting for Proctor Curve – Incorrect Proctor Method Used for Trench Backfill - <b>Rejected</b></i>	6/24/2021	<b>CQA – Rejected on 7/21/2021 No Need to Resubmit</b>
02970-08	Temporary Erosion Seed Mix as Installed on June 30, 2021 <b>Mine Site</b>	7/6/2021	<b>CQA – TBD EPA - TBD</b>
01300-05	South Pond Vibrating Wire Piezometer – Product Sheets and Calibration Certs. <b>Mine Site</b>	7/7/2021	<b>CQA – TBD EPA - TBD</b>
02272-16	South Pond Liner Repair Data for June 8 through July 1, 2021 <b>Mine Site</b>	7/7/2021	<b>CQA – 7/22/2021 EPA - TBD</b>
HC-02200-05	Soil Analysis/Proctor – Native Screened Soil from Blue Creek (for use as pipe bedding only)	7/12/2021	<b>CQA – 7/13/2021 EPA - TBD</b>
<b>Other Items</b>			
<b>Item</b>	<b>Title</b>	<b>Comments</b>	
None			

Copies of the updated CQA Logs are being updated and will be located on the project SharePoint site under the 2021 CQA Folder.

## Site Inspections

Details regarding the four-phase CQA observation/inspection process for each definable work feature are summarized below and are further detailed in the daily CQC/CQA reports that are available on the project SharePoint site.

### Preparatory Inspections / Meetings

- Briefing for Verification Soil Sampling at the SCSZ and Pit 4 Upper Overburden Pile

### Initial Phase Inspections

- Effluent Pipeline – Ongoing equipment mobilizations and inspections
- Effluent Pipeline – Clearing limits and tree removal at the northern portion of the New Access Road

### Follow-up Phase and Ongoing Inspections

- Verification Soil Sampling for the South CSZ FSS conducted
- Verification Soil Sampling for the Pit 4 Upper Overburden Pile
- Mine Waste Placement in Pit 4 – Low activity/low reactivity material from the SWRP, Pit 4 Middle Overburden Pile and South CSZ materials placed - no restrictions on placement.
- Dust Monitoring System – Tracking site-wide alerts and alarms
- Effluent Pipeline – Trenching, bedding and backfill
- Effluent Pipeline – BMPs along Blue Creek Road prior to ground disturbing activities
- South Pond Commissioning Checks
- South Pond Liner Repairs (7/16/2021)

### Completion Inspections

- None

## THREE WEEK LOOKAHEAD SCHEDULE

A copy of the Three Week Lookahead Schedule is provided as Attachment A.

Report completed and submitted by:
<u>Andrew Liffing, P.E.</u> <u>Project Construction Director</u>
Attachments
<ul style="list-style-type: none"><li>• Attachment A – Midnite Mine 3 Week Lookahead Schedule</li></ul>
Photos of pertinent items are provided below.





**Figure 1** – Crushing and screening operations at the HSWRP, and progress on the HSWRP, view looking west.



**Figure 2** – Excavation, loading, and hauling of low activity/low reactivity material from the South Waste Rock Pile – Mid loadout 1, view looking northeast.





**Figure 3** – Excavation, loading, and hauling of low activity/low reactivity material from the South Waste Rock Pile – Mid loadout 2, view looking southeast.



**Figure 4** – Excavation, loading, and hauling of low activity/low reactivity material from the Pit 4 Overburden, view looking east.





**Figure 5** – Placement of low activity/low reactivity material in Pit 4, view looking south from the Pit 4 Overlook.



**Figure 6** – Collection soil samples in the SCSZ for radiological analysis.





**Figure 7** – South Pond liner repairs – Northwest Linings technician abrading area to be welded



**Figure 8** – Trenching and installation of Effluent Pipeline





**Figure 9** – Budinger and Associates technician taking density and moisture content readings of compacted trench backfill



**Figure 10** – View of the nearby Sherwood fire in the afternoon of 21 July, view looking southeast across Pit 4.

**ATTACHMENT A**

**MIDNITE MINE THREE WEEK LOOKAHEAD SCHEDULE**



Activity ID	Activity Name	RD	% Complete	Start	Finish					Jul 18				Jul 25				Aug 01				Aug 08				Aug 15			
						Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun
17. Excavation and placement of materials into Pit #4		95d		29-Mar-21 A	05-May-22																								
17-1240	Excavate and Haul SWRP (Middle Zone Mining -All Phase A) Pit#4	95d	63%	29-Mar-21 A	05-May-22																								
17-1220	Excavate and Haul Pit 4 Overburden middle section	16d	82%	12-May-21 A	13-Aug-21																								
17-1120	Chipping Timber	10d	0%	16-Aug-21	27-Aug-21																								
18. Complete Repair of South Pond		6d		23-Apr-21 A	30-Jul-21																								
18-1040	Support South Pond Pumping Station Construction and Commision Sou	6d	70%	23-Apr-21 A	30-Jul-21																								
18-1150	Commission the South Pond	6d	50%	09-Jul-21 A	30-Jul-21																								
19. Initiate (b) (6) Borrow Area Development		11d		09-Aug-21	23-Aug-21																								
19-1060	Construct monitoring wells in (b) (6) Borrow (Jul/Aug)	11d	0%	09-Aug-21*	23-Aug-21																								
20. Haul and place Cover material over the Pit#4 WCA		107d		29-Mar-21 A	23-May-22																								
20-1050	Haul Crushing and Screening Rejects Material to Pit#4	102d	4%	29-Mar-21 A	16-May-22																								
20-1060	Produce Geomembrane Bedding for Pit#4	102d	29%	29-Mar-21 A	16-May-22																								
20-1070	Haul Geomembrane Bedding to Stockpiles for Pit#4 Cap	107d	29%	29-Mar-21 A	23-May-22																								
26. Construct the new WTP and Pipeline for discharge		53d		07-Jun-21 A	06-Oct-21																								
26-3070	Erosion Control BMP's & Site Controls	6d	50%	07-Jun-21 A	30-Jul-21																								
26-3090	Material Staging & Pipe Fusing	21d	35%	07-Jun-21 A	20-Aug-21																								
26-3080	Clearing & Grubbing	1d	70%	18-Jun-21 A	23-Jul-21																								
26-3120	Install MH at STA 34+55	3d	95%	15-Jul-21 A	27-Jul-21																								
26-3360	18" Culvert Installation at West End Approach	1d	0%	26-Jul-21	26-Jul-21																								
26-3130	Progress to STA 50+00	7d	0%	27-Jul-21	04-Aug-21																								
26-3370	Roadway Subgrade Prep	5d	0%	27-Jul-21	02-Aug-21																								
26-3380	Ditch Shaping and Grading	4d	0%	03-Aug-21	06-Aug-21																								
26-3140	Progress to STA 66+00	6d	0%	05-Aug-21	12-Aug-21																								
26-3390	Crushed Aggregate Base Course	7d	0%	09-Aug-21	17-Aug-21																								
26-1730	Develop Construction Plans for Discharge system line	30d	0%	11-Aug-21	22-Sep-21																								
26-1740	Develop WTP Construction Work Plans for Approval	30d	0%	11-Aug-21	22-Sep-21																								
26-1780	Effluent Line HDPE Pipe and Materials Purchase and Delivery	40d	0%	11-Aug-21	06-Oct-21																								
26-3150	Progress to STA 86+00	7d	0%	13-Aug-21	23-Aug-21																								
26-3250	Culvert #1 (~ STA 74+75)	1d	0%	16-Aug-21	16-Aug-21																								
26-3400	HMA Base Lift	2d	0%	18-Aug-21	19-Aug-21																								

Activity ID	Activity Name	RD	% Complete	Start	Finish			Jul 18							Jul 25							Aug 01							Aug 08							Aug 15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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27. Produce drain rock and other materials necessary for the sub-waste liner syst		103d		29-Mar-21 A	17-May-22																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															